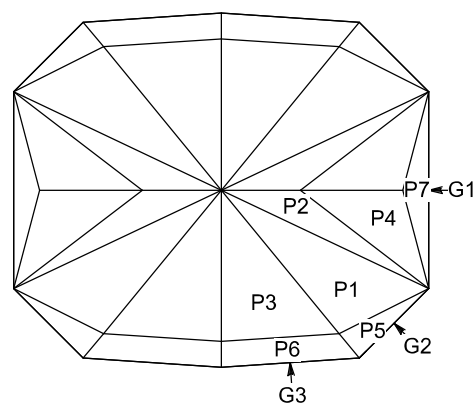
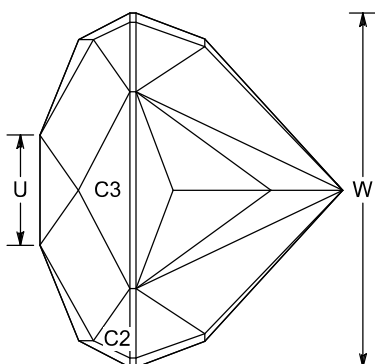
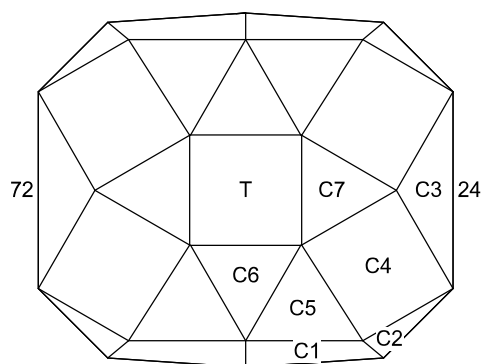


60

48

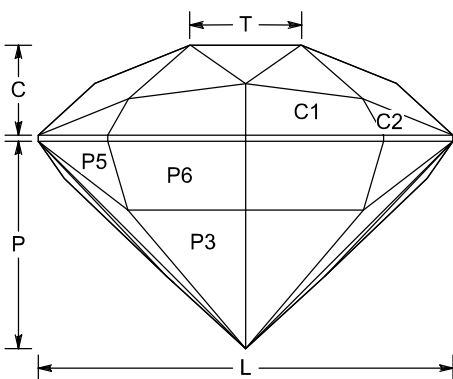
36



84

<96>

12



Tessellation 3.1 (F)

Suite: Tessellation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.520

49 + 10 girdles = 59 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.174$ $T/W = 0.317$ $U/W = 0.311$

$P/W = 0.586$ $C/W = 0.255$

$Vol./W^3 = 0.419$

PAVILION

P1	42.50°	20-28-68-76	Cut to centerpoint.
P3	42.56°	01-47-49-95	Meet at culet.
P2	42.90°	21-27-69-75	Meet at culet.
G1	90.00°	24-72	Set stone length.
G2	90.00°	12-36-60-84	Meet P1, P2, G1
P4	43.90°	22-26-70-74	Meet P1, P2, G1, G2
P5	65.26°	12-36-60-84	Level girdle.
P6	69.40°	01-47-49-95	Meet P1, P3, P5
P7	55.00°	24-72	Level girdle.
G3	90.00°	01-47-49-95	Level girdle.

CROWN

C1	62.94°	01-47-49-95	Set girdle width.
C2	53.50°	12-36-60-84	Level girdle.
C3	42.36°	24-72	Level girdle.
C4	29.89°	18-30-66-78	Meet G2, G3, C2, C3
C5	26.32°	04-44-52-92	Meet C1, C2, C4
C6	22.00°	96-48	Meet C1, C5
C7	22.00°	24-72	Meet C3, C4; C4, C5, C6
T	0.00°	Table	Meet C4, C5, C6, C7

This design is a total re-do of the pavilion for Tessellation 3. It's still a bit odd to establish the girdle outline, but this should take way, way less effort than the original version of the design. Plus, it'll still look damn good, with a very interesting and unique reflection pattern. Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I think it would look awesome in anything strongly dichroic, oriented to show it off.

C:\Users\ARYADE~1\Pictures\Gems\DESIGN~1\WORKSI~1\Done\21TESS~1.GEM